SYLLABUS OF THE EDUCATIONAL COMPONENT

MODERN LABORATORY DIAGNOSTICS OF TRANSBORDER ANIMAL DISEASES

specialty	211 Veterinary medicine	mandatory discipline	selective
educational program	«Veterinary medicine»	faculty	veterinary medicine
educational level	Master's degree	department	Epizootology and microbiology

TEACHER

Raisa Severyn

Higher education – master of veterinary medicine
Scientific degree - candidate of veterinary sciences, specialty 16.00.03 – veterinary microbiology, virology, epizootology, mycology and immunology, doctor of philosophy
Academic title - associate professor of epizootology and microbiology department
Work experience - 41 years
Indicators of professional activity on the subject of the course:

- **author and co-author of about 55 scientific publications;**
- **co-author of 2 electronic textbooks;**
- **co-author of more than 55 methodological instructions for laboratory, practical works;**
- **experience of scientific work of 21 years;**
- **Research internship at the National Scientific Center "Institute of Experimental and Clinical Veterinary Medicine", Kharkiv; International under qualification Lublin (Republic of Poland 2023).**
- **participant of scientific and methodical conferences.**
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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Purpose	acquiring skills in forecasting, recognizing threats, identifying causes, differential diagnostics, and developing rational measures for the prevention, response, and elimination of both transboundary, especially dangerous, and poorly studied epizootically significant animal diseases.
Format	lectures, practical classes, independent work, individual tasks, laboratory work, teamwork
Detailing of learning results and forms of their control	• ability to assess the health status of animals suffering from infectious diseases / individual practical tasks • ability to conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis. individual practical tasks • ability to predict the course of infectious diseases and the effectiveness of control measures / individual practical exercises
Scope and forms of control	3 ECTS credits (90 hours): 12 hours of lectures, 18 hours of laboratory classes; 60 hours of independent work, current control (3 chapters); final control - differentiated assessment.
Requirements of the teacher	timely completion of tasks, activity, teamwork
Enrollment conditions	according to the curriculum

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competencies	GC 1. Ability to abstract thinking, analysis and synthesis. GC 2. Ability to apply knowledge in practical situations. GC 7. Ability to conduct research at an appropriate level. GC 8. Ability to learn and master modern knowledge. GC 9. Ability to make informed decisions. GC 10. Ability to communicate with representatives of other professional groups of different levels (with experts of other fields of knowledge/types of economic activity). SC 6. Ability to select, pack, fix and send samples of biological material for laboratory research. SC 7. Ability to organize and conduct laboratory and special diagnostic studies and analyse their results. SC 8. Ability to plan, organize and implement measures for the treatment of animals of various classes and species suffering from non-contagious, infectious and invasive diseases SC 13. The ability to develop strategies for the prevention of diseases of various etiologies	**Program learning outcomes**	PLO 1. Know and correctly use the terminology of veterinary medicine PLO 2. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies PLO 6. Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies PLO 7. Formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-contagious diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and species PLO 9. Develop measures aimed at protecting the population from diseases common to animals and humans. PRN19. Carry out educational activities among industry workers and the population.

STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. **Modern diagnostics of transboundary animal diseases with vesicular syndrome.**					
Lecture 1	Features of modern comprehensive diagnostics of foot-and-mouth disease	**LC 1**	Modern methods of comprehensive diagnosis of vesicular stomatitis	**Independent work**	1. Modern methods of differential diagnosis of foot-and-mouth disease. 2. Modern methods of differential diagnosis of vesicular diseases of animals.
Lecture 2	Features of modern comprehensive diagnostics of swine vesicular disease.	**LC 2**	Diagnosis of vesicular exanthema of pigs		
		LC 3	Modern methods of comprehensive diagnostics of contagious pleuropneumonia in cattle.		
Chapter 2. **Modern diagnostics of transboundary diseases petits ruminants**					
Lecture 3	Features of modern comprehensive diagnostics of Peste des petits ruminants	**LC 4**	Modern methods of comprehensive diagnosis of lumpy dermatitis. Modern methods of diagnosis of sheep and goat pox	**Independent work**	1Modern methods of differential diagnosis of rinderpest . 2. Modern methods of differential diagnosis of contagious pleuropneumonia of cattle .
Lecture 4	Features of modern comprehensive diagnostics of bluetongue (bluetongue fever)	**LC 5**	Modern methods of comprehensive diagnosis of Schmallenberg's disease.		
		LC 6	Modern methods of comprehensive diagnostics of Rift Valley Fever		
Chapter 3. **Modern laboratory diagnostics of transboundary diseases of pigs and poultry.**					
Lecture 5	Features of modern comprehensive diagnostics of African swine fever	**LC 7**	Features of modern comprehensive diagnostics of avian influenza.		1. Modern methods of differential diagnosis of ASF. 2. Modern methods of comprehensive diagnosis of classical swine fever
Lecture 6	Features of modern comprehensive diagnostics of avian influenza.	**LC 8**	Modern methods of comprehensive diagnostics of Newcastle disease.		

		LC 9	Modern methods of comprehensive diagnosis of spongiform encephalopathy.		3. Modern methods of differential diagnosis of highly pathogenic avian influenza, Newcastle disease.

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Literature	1. Karysheva A. F. Special epizootology: textbook. Kyiv: Higher Education, 2002. 703 p. 2. Infectious diseases of sheep and goats: a textbook / O. A. Tkachenko et al. Zhytomyr: Polissya, 2012. 372 p. 3. Zlonkevych Ya., Oleksiuk I., Kravtsiv Yu. Infectious diseases of horses: a textbook. Lviv, 2006. 204 p. 4. Sapronous infectious diseases of animals / L.E. Kornienko, V.V. Nedosekov, V.O. Busol et al.: monograph.– Ed. L.E. Kornienko, V.O. Busol.– Bila Tserkva: Bila Tserkva. State Agrarian University, 2010. 306 p.	**Methodological support**	1. Gontar A.M., Ponomarenko G.V. Infectious diseases of cattle: methodological guidelines on special epizootology for students of the Faculty of Veterinary Medicine in the specialty 211 "Veterinary Medicine". – Kh.: KhDZVA, 2020. – 28 p. 2. Regulatory and legislative acts in the field of veterinary medicine. Instructions on measures to prevent and combat infectious diseases of farm animals and poultry. 3. Gontar A.M., Severyn R.V., Ponomarenko G.V. Anaerobic infections of sheep and goats. Kharkiv.: KhDZVA, 2020. – 32 p. 6. Golovko V.O., Gontar A.M., Severyn R.V., Ponomarenko G.V., Ivanchenko I.M. Differential diagnosis of vesicular diseases of sheep and goats. Kharkiv: KhDZVA, 2019. – 32 p.

EVALUATION SYSTEM

SYSTEM		POINTS	ACTIVITY THAT IS ASSESSED
Final assessment (different credit, exam)Final evaluation	**100 ECTS points (standard)**	**up to 100**	**40 % - Final testing**
			60 % - student's current work during the semester
Final assessment (non-differential credit)	**100 points ECTS (standard)**	**up to 100**	**100 % - average grade for sections**
Rating of section	**100 points total**	**up to 30**	**30 % - answers to test questions**
		up to 30	**30 % - the result of mastering the block of independent work**
		up to 40	**40 % - student activity in class (oral answers)**

NORMS OF ACADEMIC ETHICS AND INTEGRITY

All participants in the educational process (including students) must adhere to the code of academic integrity and the requirements stipulated in the regulation "On Academic Integrity of Participants in the Educational Process of SBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.